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## Patent Record View

Monday, September 21 2009

THOMSON Innovation

Patent / Publication: AU199884574A Method and system for increasing capacity and improving performance of a cellular network

## Bibliographic

## DWPI Title

Performance of cellular telephone network optimising method maintaining and analysing matrices of cell in network with matrix storing performance values and statistics concerning cell and optimising conditions for handoff from cell in response to performance values

## English Title

Method and system for increasing capacity and improving performance of a cellular network

## Assignee

Standardized: NORTHERN TELECOM LTD

## DWPI Assignee

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1999-121319 / 200424

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AU199884574D / 1998-06-22

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US1997890227A / 1997-07-09 / US

AU199884574D / 1998-06-22 / AU

WO19981B1200A / 1998-06-22 / IB

## Abstract

## DWPI Abstract

(WO1999003245A2)

## Novelty

The method involves maintaining performance values concerning the cell. Conditions handoff are adjusted in response to the performance values, the performance values includes frequency of successful handoffs to a second cell of the cellular telephone network, frequency of failed handoffs to the second cell because the second cell was removed from a list of handoff cells, and frequency of failed handoffs to the second cell because the second cell had insufficient resources. The two cell operate on a common frequency and the handoff is a soft handoff. The method maintains status values concerning the cell and adjusts conditions handoff in response to the status values, the status values includes a pilot signal strength measurement for the second cell, and a round trip delay measurement from the second cell to the mobile unit, and the second cell is removed from the list of handoff cells if the pilot signal strength measurement for the second cell falls below a set threshold or if the round trip delay measurement exceeds a set maximum. The status values include a designation available hardware resource of the second cell. A reason for removing the second cell from the list of handoff cells. The status values include a designation of whether the second cell is current, removed, or most recently removed.

## Advantage

ADVANTAGE Increases capacity and improves performance of cellular network by improving conditions for handoff.

## Classes/Indexing

## IPC

Current IPC-R	Invention	Version	Additional	Version
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Advanced	-	-	H04W 36/18	20090101
Core	-	-	H04W 36/00	20090101
Subclass	-	-	-	-

**ECLA**

H04Q000738H T04Q000738H4 T04W003618

**DWPI Class**

W01 W02

**DWPI Manual Codes**

EPI Manual Codes: W01-B05A1A; W02-C03C1A; W02-C03C1D

**Legal Status****INPADOC Legal Status**

Gazette Date	Code	Description
2000-03-23	MK6 -	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE

Get Family Legal Status



**Family****Family** Expand INPADOC Family (9)**DWPI Family (7)**

Publication	DWPI Update	Publication Date	IPC Code	Pages	Language
WO1999003245A2	199910	1999-01-21	H04M000000	16	English
Local appls.: WO1998IB1200A Filed: 1998-06-22					
AU199884574A_	199924	1999-02-08	H04M000000	-	English
Local appls.: AU199884574A Filed: 1998-06-22					
US5974318A_	199952	1999-10-26	H04B000100	-	English
Local appls.: US1997890227A Filed: 1997-07-09					
EP995296A2	200025	2000-04-26	H04M000100	-	English
Local appls.: WO1998IB1200A Filed: 1998-06-22					
US6112089A_	200043	2000-08-29	H04Q000720	-	English
Local appls.: US199928886A Filed: 1999-04-09					
US6192246B1	200112	2001-02-20	H04B000100	-	English
Local appls.: US199928885A Filed: 1999-04-09					
CA2295922C_	200424	2004-03-30	H04Q000738	-	English
Local appls.: WO1998IB1200A Filed: 1998-06-22					

**Claims**

No Claims exist for this Record

**Description****Background/ Summary** Expand Background/Summary**Drawing Description**

 Expand Drawing Description**Description** Expand Description**Citations****Citations**

Citing Patents (0)

Cited Patents (0)

Cited Non-patents (0)

**Other****Title Terms**PERFORMANCE CELLULAR TELEPHONE NETWORK OPTIMUM METHOD MAINTAIN ANALYSE MATRIX CELL STORAGE  
VALUE STATISTICAL CONDITION RESPOND**Related Accessions**

Type	DWPI Update	Accession Number	DWPI Title
N	199910	1999-088519	-

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